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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/521,283	02/28/2005	Qiu Taiquing	A-71795/MSS (463035-788)	1742
24341 MORGAN, LE	7590 07/23/2007 EWIS & BOCKIUS, LLP	•	EXAMINER	
2 PALO ALTO SQUARE			ROBINSON, DANIEL LEON	
3000 EL CAMINO REAL PALO ALTO, CA 94306		•	ART UNIT	PAPER NUMBER
			3742	
			MAIL DATE	DELIVERY MODE
			07/23/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	· <u> </u>					
	Application No.	Applicant(s)				
	10/521,283	TAIQUING, QIU				
Office Action Summary	Examiner	Art Unit				
	Daniel L. Robinson	3742				
The MAILING DATE of this communication ap Period for Reply	ppears on the cover sheet v	vith the correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING Description of time may be available under the provisions of 37 CFR 1, after SIX (6) MONTHS from the mailing date of this communication.  If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).  Status	DATE OF THIS COMMUN .136(a). In no event, however, may a d will apply and will expire SIX (6) MO te, cause the application to become A	ICATION. I reply be timely filed PNTHS from the mailing date of this communication. ABANDONED (35 U.S.C. § 133).				
1)⊠ Responsive to communication(s) filed on 24 /	April 2007.					
3) Since this application is in condition for allowed	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) ⊠ Claim(s) 1-9,11-14,16 and 18 is/are pending if 4a) Of the above claim(s) is/are withdra 5) □ Claim(s) 14,16 and 18 is/are allowed.  6) ⊠ Claim(s) 1-9 is/are rejected.  7) □ Claim(s) 11-13 is/are objected to.  8) □ Claim(s) are subject to restriction and/	awn from consideration.					
Application Papers						
9)☐ The specification is objected to by the Examin	er.					
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the E	•					
Priority under 35 U.S.C. § 119		•				
<ul> <li>12) Acknowledgment is made of a claim for foreig</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority document</li> <li>2. Certified copies of the priority document</li> <li>3. Copies of the certified copies of the priority document</li> <li>* See the attached detailed Office action for a list</li> </ul>	nts have been received. Its have been received in a cority documents have bee au (PCT Rule 17.2(a)).	Application No n received in this National Stage				
Attachment(s)	<del></del>					
Notice of References Cited (PTO-892)     Notice of Draftsperson's Patent Drawing Review (PTO-948)		Summary (PTO-413) v(s)/Mail Date				
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date		Informal Patent Application (PTO-152)				

## Response to Amendment

## **Drawings**

The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the "insulating spacer removably placed between the insulating block and a second adjacent insulating block" must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filling date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner,

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the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-4, 6-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nandu in view of Lecouras et al.(U.S.Pat.5,900,177). ). Nanbu discloses an ultrahigh temperature heat treatment apparatus that shows many of the features of the claimed invention but fails to explicitly show a semiconductor fabrication method. Lecouras discloses a furnace sidewall temperature control system that shows using a furnace to fabricate semiconductors. It would have been obvious to one of ordinary skill in the art at the time of the claimed invention to use a furnace to fabricate a semiconductor since the temperature can be controlled.

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The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Nanbu in view of Lecouras and further in view of Berg(U.S.Pat.5,313,048). Nanbu in view of Lecouras discloses an ultrahigh temperature heat treatment apparatus that shows many of the features of the claimed invention but fails to explicitly show a silica and aluminum block. Berg discloses a high temperature research furnace with a v-shaped guide member that shows a silica and aluminum block. It would have been obvious to one of ordinary skill in the art at the time of the claimed invention to use a silica and aluminum block as taught by Berg in the device of Nandu in view of Lecouras to create a refractory block.

## Allowable Subject Matter

Claims 11-13 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claims 14, 16, and 18 allowed.

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Allowable subject matter was indicated, regarding Claim 10 which depended from Claim 6 which depends from Claim 1. The subject matter of Claim 6 was not incorporated into amendmended Claim 1.

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. HirasawaUS 5,001,327 and Futamura US 6,372,048 are cited to show structure similar to the claimed invention.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Daniel L. Robinson whose telephone number is 571-272-4788. The examiner can normally be reached on m-f 5:30-2:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robin Evans can be reached on 571-272-4777. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information DANIEL ROBINSON

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

dlr